

METEOROLOGICAL DATA SYSTEM

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Data Period of Record: 12/1/1999 to 2/28/2001 for months of Sep, Oct,
Nov, Dec, Jan,& Feb

Scale of data: synoptic to regional to subregional

Sources of data: NOAA routine airport data: Bakersfield, Livermore, Fresno, Sacramento, Stockton; NOAA profiler sites: Bakersfield, Los Banos, & Tracy, Lehrman synoptic typing data, NOAA routine sounding data for Oakland, CA

Limitations: Some data missing and NWS data QA?

Benefits: database allows unlimited number of queries (need some programming experience in ACCESS), very flexible, contains key fields like precipitation, mixing heights, synoptic pattern number (Lehrman), stability and visibility

CORRESPONDENCE OF SURFACE STATION TO PROFILER SITE

Surface Station Profiler Site

Bakersfield Bakersfield

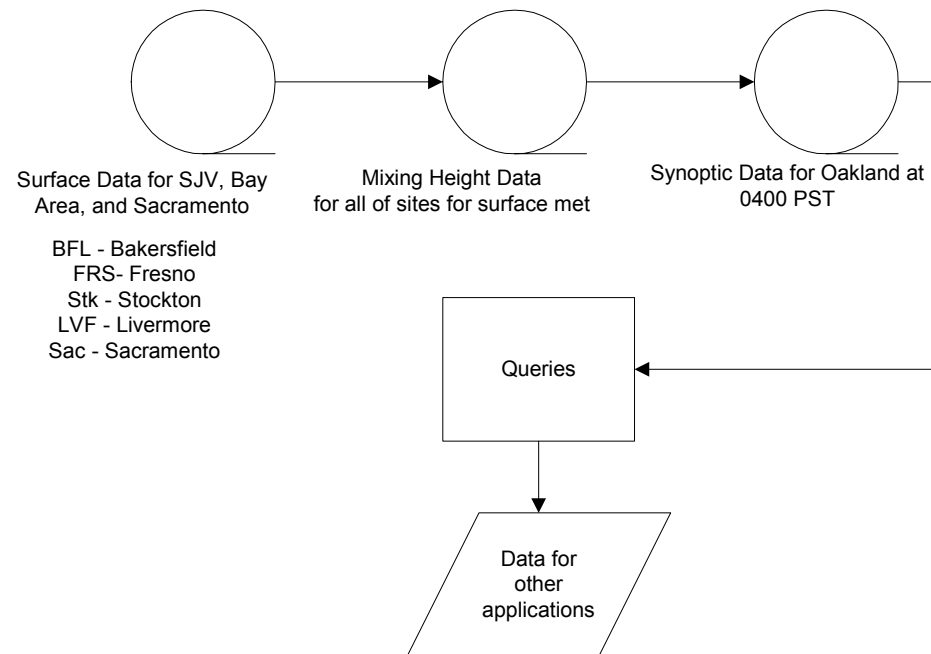
Fresno Los Banos

Stockton Tracy

Livermore Tracy

Sacramento Sacramento

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Data Products

Min, Max, and Mean of Temp, Dewpt, Wind speed

Min, Max of visibility

Total daily precipitation

Min, Max Mixing Height and No_hours \leq 200 and No_hours \geq 500

Lehrman synoptic typing scheme (daily)